=> d L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS 351527-77-0 REGISTRY RN CN Separin (9CI) (CA INDEX NAME) OTHER NAMES: CN Proteinase Espl Separase CN CN Sister-sepg. protease separin MF Unspecified CI MAN SR CA STN Files: BIOSIS, CA, CAPLUS, TOXCENTER LC

=> s separin/ch

1 SEPARIN/CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

18 REFERENCES IN FILE CA (1962 TO DATE)

19 REFERENCES IN FILE CAPLUS (1962 TO DATE)

(FILE 'HOME' ENTERED AT 15:30:38 ON 20 OCT 2002) FILE 'REGISTRY' ENTERED AT 15:31:54 ON 20 OCT 2002 1 S SEPARIN/CN L1 FILE 'HCAPLUS' ENTERED AT 15:32:20 ON 20 OCT 2002 FILE 'REGISTRY' ENTERED AT 15:32:23 ON 20 OCT 2002 SET SMARTSELECT ON 5 TERMS SEL L1 1- CHEM: L2 SET SMARTSELECT OFF FILE 'HCAPLUS' ENTERED AT 15:32:24 ON 20 OCT 2002 52 S L2 L3 21 S L3 (L) INHIBIT? L41 S L4 AND PD<19990215 L5 FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, ENCOMPPAT, ENCOMPPAT2, EUROPATFULL, IFIPAT, INPADOC, JAPIO, PAPERCHEM2, PATDD, PATDPA, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PIRA, RAPRA, SYNTHLINE, TULSA, TULSA2, USPATFULL, USPAT2, WPIDS' ENTERED AT 15:36:32 ON 20 OCT 2002 FILE 'REGISTRY' ENTERED AT 15:36:37 ON 20 OCT 2002 SET SMARTSELECT ON SEL L1 1- CHEM : 5 TERMS Ь6 SET SMARTSELECT OFF FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, ENCOMPPAT, ENCOMPPAT2, EUROPATFULL, IFIPAT, INPADOC, JAPIO, PAPERCHEM2, PATDD, PATDPA, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PIRA, RAPRA, SYNTHLINE, TULSA, TULSA2, USPATFULL, USPAT2, WPIDS' ENTERED AT 15:36:39 ON 20 OCT 2002 L7 85 S L6 L8 42 S L7 (L) INHIBIT? 32 DUP REM L8 (10 DUPLICATES REMOVED) L9 L10 29 S L9 AND (CHROMOSOME OR CHROMATID) SET SMA OFF SET SMA ON SET SMA LOGIN FILE 'CAPLUS' ENTERED AT 16:22:34 ON 20 OCT 2002 1 S L*** L12 FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT, ENCOMPPAT2, EUROPATFULL, IFIPAT, INPADOC, JAPIO, PAPERCHEM2, PATDD, PATDPA, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PIRA, RAPRA, SYNTHLINE, TULSA, TULSA2, USPATFULL, USPAT2, WPIDS' ENTERED AT 16:22:38 ON 20 OCT 2002 FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT, ENCOMPPAT2, EUROPATFULL, IFIPAT, INPADOC, JAPIO, PAPERCHEM2, PATDD, PATDPA, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PIRA, RAPRA, SYNTHLINE, TULSA, TULSA2, USPATFULL, USPAT2, WPIDS' ENTERED AT 16:23:18 ON 20 OCT 2002 29 S L10 L13

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

Boehringer Ingelheim International G.m.b.H., Germany

Compounds modulating sister chromatid separation and method for

Current Biology (2002), 12(16), 1368-1378

L13 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2002 ACS

Peters, Jan-Michael; Waizenegger, Irene

CODEN: CUBLE2; ISSN: 0960-9822

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Cell Press

137:121596

2002:573396 CAPLUS

Eur. Pat. Appl., 19 pp.

identifying same

CODEN: EPXXDW

Journal English

RE.CNT 35

LΑ English FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. ----------_____ 20020731 EP 2001-101252 20010119 EP 1227160 A1 PI R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 5 ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 6 OF 29 CAPLUS COPYRIGHT 2002 ACS L13 2002:548056 CAPLUS AN DN 137:243836 ΤI The Dual Mechanism of Separase Regulation by Securin Hornig, Nadine C. D.; Knowles, Philip P.; McDonald, Neil Q.; Uhlmann, AU Frank Chromosome Segregation Laboratory, Cancer Research UK, London Research CS Institute, London, WC2A 3PX, UK so Current Biology (2002), 12(12), 973-982 CODEN: CUBLE2; ISSN: 0960-9822 PB Cell Press DTJournal LA English RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT L13 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2002 ACS 2002:540563 CAPLUS ANSpo13 regulates cohesin cleavage ΤI Lee, Brian H.; Amon, Angelika; Prinz, Susanne AU Center for Cancer Research, Howard Hughes Medical Institute, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA Genes & Development (2002), 16(13), 1672-1681 SO CODEN: GEDEEP; ISSN: 0890-9369 Cold Spring Harbor Laboratory Press PB DTJournal English LA THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 28 ALL CITATIONS AVAILABLE IN THE RE FORMAT L13 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2002 ACS AN2002:471266 CAPLUS Phosphorylation of the mitotic regulator Pds1/securin by Cdc28 is required TIfor efficient nuclear localization of Esp1/separase ΑU Agarwal, Ritu; Cohen-Fix, Orna The Laboratory of Molecular and Cellular Biology, National Institutes of CS Health, NIDDK, Bethesda, MD, 20892, USA Genes & Development (2002), 16(11), 1371-1382 SO CODEN: GEDEEP; ISSN: 0890-9369 PB Cold Spring Harbor Laboratory Press DΤ Journal; Miscellaneous LΑ English RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 9 OF 29 CAPLUS COPYRIGHT 2002 ACS L13 2002:385159 CAPLUS ANDN 137:211790 The Aurora B Kinase AIR-2 Regulates Kinetochores during Mitosis and Is ΤI Required for Separation of Homologous Chromosomes during Meiosis Kaitna, Susanne; Pasierbek, Pawel; Jantsch, Michael; Loidl, Josef; AU Glotzer, Michael

Research Institute of Molecular Pathology (IMP), Vienna, A-1030, Austria

Current Biology (2002), 12(10), 798-812

CODEN: CUBLE2; ISSN: 0960-9822

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Cell Press

LΑ English THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 53 ALL CITATIONS AVAILABLE IN THE RE FORMAT L13 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2002 ACS 2002:86020 CAPLUS AN136:212377 DN Regulating sister chromatid separation by separase ΤI phosphorylation Nagao, Koji; Yanagida, Mitsuhiro ΑU Department of Biophysics, Graduate School of Science, Kyoto University, CS Kyoto, 606-8502, Japan Developmental Cell (2002), 2(1), 2-4 SO CODEN: DCEEBE; ISSN: 1534-5807 Cell Press PB Journal; General Review DT English LA THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 10 ALL CITATIONS AVAILABLE IN THE RE FORMAT L13 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2002 ACS 2002:11853 CAPLUS AN DN 136:162818 Dual inhibition of sister chromatid separation at metaphase TI Stemmann, Olaf; Zou, Hui; Gerber, Scott A.; Gygi, Steven P.; Kirschner, ΑU Department of Cell Biology, Harvard Medical School, Boston, MA, 02115, USA CS Cell (Cambridge, MA, United States) (2001), 107(6), 715-726 SO CODEN: CELLB5; ISSN: 0092-8674 PR Cell Press Journal DΤ English T.A THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 46 ALL CITATIONS AVAILABLE IN THE RE FORMAT L13 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2002 ACS ΑN 2001:786622 CAPLUS DN 136:98960 Phosphorylation of the cohesin subunit Scc1 by Polo/Cdc5 kinase regulates ΤI sister chromatid separation in yeast Alexandru, Gabriela; Uhlmann, Frank; Mechtler, Karl; Poupart, Marc-Andre; AU Nasmyth, Kim Res. Inst. of Mol. Pathol. (IMP), Vienna, A-1030, Austria CS Cell (Cambridge, MA, United States) (2001), 105(4), 459-472 SO CODEN: CELLB5; ISSN: 0092-8674 PB Cell Press DTJournal English LΑ THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 54 ALL CITATIONS AVAILABLE IN THE RE FORMAT L13 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2002 ACS 2001:756258 CAPLUS AN 136:306549 DN Role of the kinetochore protein Ndc10 in mitotic checkpoint activation in TISaccharomyces cerevisiae Fraschini, R.; Beretta, A.; Lucchini, G.; Piatti, S. ΑU Dipartimento di Biotecnologie e Bioscienze, Universita degli Studi di CS Milano-Bicocca, Milan, 20126, Italy Molecular Genetics and Genomics (2001), 266(1), 115-125 SO CODEN: MGGOAA; ISSN: 1617-4615 PBSpringer-Verlag DTJournal LA English THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 64 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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     and binds to PIM and THR
     Jager, Hubert; Herzig, Alf; Lehner, Christian F.; Heidmann, Stefan
ΑU
     Department of Genetics, University of Bayreuth, Bayreuth, 95440, Germany
CS
     Genes & Development (2001), 15(19), 2572-2584
SO
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PB
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LΑ
     English
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AN
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DN
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TΙ
     growth of mouse embryonic fibroblasts
     Mei, J.; Huang, X.; Zhang, P.
ΑU
     Department of Molecular Physiology and Biophysics, Baylor College of
CS
     Medicine, Houston, TX, 77030, USA
     Current Biology (2001), 11(15), 1197-1201
SO
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PB
     Cell Press
DT
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LA
              THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
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DN
     Degradation of Drosophila PIM regulates sister chromatid
ΤI
     separation during mitosis
     Leismann, Oliver; Herzig, Alf; Heidmann, Stefan; Lehner, Christian F.
ΑU
     Department of Genetics, University of Bayreuth, Bayreuth, 95440, Germany
CS
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L13 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2002 ACS
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AN
DN
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     Destruction of the securin Pdslp occurs at the onset of anaphase during
TI
     both meiotic divisions in yeast
     Salah, Suhal-Maria; Nasmyth, Kim
ΑU
     Vienna Biocenter, Institute of Biochemistry and Molecular Biology, Vienna,
CS
     1030, Austria
     Chromosoma (2000), 109(1-2), 27-34
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PΒ
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DT
     Journal
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Cell cycle mechanisms of sister chromatid separation; roles of

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Yanagida, Mitsuhiro ΑU Department of Gene Mechanisms, Graduate School of Biostudies, Kyoto CS University, Kyoto, 606-8502, Japan Genes to Cells (2000), 5(1), 1-8 SO CODEN: GECEFL; ISSN: 1356-9597 Blackwell Science Ltd. PB Journal; General Review DTEnglish LΑ RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 19 OF 29 CAPLUS COPYRIGHT 2002 ACS L13 2000:94335 CAPLUS AN 133:39512 DN Chromosome cycle regulated by the APC/cyclosome TΙ Shirayama, Masaki ΑU Dep. Dev. Biol., Stanford Univ. Med. Cent., Stanford, CA, 94305-5329, USA CS Molecular Medicine (Tokyo) (2000), 37(2), 152-165 SO CODEN: MOLMEL; ISSN: 0918-6557 Nakayama Shoten PB DTJournal; General Review LΑ Japanese ANSWER 20 OF 29 CAPLUS COPYRIGHT 2002 ACS L13 1999:470065 CAPLUS AN 131:240743 DN Separating sister chromatids TIAU Nasmyth, Kim IMP Research Institute of Molecular Pathology, Vienna, A-1030, Austria CS Trends in Biochemical Sciences (1999), 24(3), 98-104 SO CODEN: TBSCDB; ISSN: 0376-5067 PB Elsevier Science Ltd. DТ Journal; General Review LΑ English RE.CNT 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 21 OF 29 EUROPATFULL COPYRIGHT 2002 WILA L13 PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET 1029547 EUROPATFULL ED 20000903 EW 200034 FS OS ΑN Pharmaceutically active compounds and method for identifying same. TIEN Pharmazeutische wirksame stoffe und Verfahren zu zu ihrer TIDE Identifizierung. Composes pharmaceutiques actifs et procede pour les identifier. TIFR Uhlmann, Frank, Dr., Paulusgasse 2/27, 1030 Wien, AT; IN Nasmyth, Kim, Dr., Sonnenfelsgasse 5/13, 1010 Wien, AT BOEHRINGER INGELHEIM INTERNATIONAL GmbH, Postfach 200, 55218 Ingelheim PA am Rhein, DE SO Wila-EPZ-2000-H34-T1b R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; DS R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO; EPA1 EUROPAEISCHE PATENTANMELDUNG PIT ΡI EP 1029547 A1 20000823 OD 20000823 EP 1999-102962 19990215 ΑI IC ICM A61K038-55 L13 ANSWER 22 OF 29 IFIPAT COPYRIGHT 2002 IFI AN 10193314 IFIPAT; IFIUDB; IFICDB TΙ SECURIN IS REQUIRED FOR CHROMOSOMAL STABILITY IN HUMAN CELLS IN Jallepalli Prasad; Kinzler Kenneth W; Lengauer Christoph; Vogelstein Bert PΑ Unassigned Or Assigned To Individual (68000) PΙ US 2002137018 A1 20020926

US 2002137018 20020926 FIUtility; Patent Application - First Publication DTFS CHEMICAL APPLICATION CLMN 18 GΙ FIGS. 1A to 1F. Generation of hSecurin-/-human cells by homologous recombination. FIG. 1A. Schematic of knockout vector design with numbered black boxes denoting hSecurin exons. FIG. 1B. PCR analysis of genomic DNA using STS A and STS B as primers and NEO ORF as a control. FIG. 1C. Southern blot analysis confirms homozygous inactivation of the hSecurin locus. FIG. 1D. Western blotting of hSecurin-/- and hSecurin+/+ cell lysates with hSecurin-specific antibodies (arrows). (*) denotes a non-specific background band. FIG. 1E. Flow cytometry analysis of hSecurin+/+ and hSecurin-/cells FIG. 1F. Cell cycle distribution, apoptotic fraction, and mitotic index of exponentially growing hSecurin+/+ and hSecurin/-cells. FIGS. 2A to 2G. Chromosomal instability in hSecurin-/-cells. FISH analysis of hSecurin+/+ (FIG. 2A) and hSecurin-/-cells (FIGS. 2B-E) with probes specific for chromosome 7 (red) and chromosome 12 (green) (FIGS. 2A-D), or with a pan-centromeric probe (FIG. 2E). Nuclear DNA was stained with DAPI (blue). (FIG. 2F) Chromosome gains and losses in hSecurin+/+ and hSecurin-/cells. The number of FISH signals per cell was determined for chromosomes 7, 12, 17, and X. The fraction of cells with FISH signals equal to the modal value of two (chromosomes 7, 12, and 17) or the modal value of one (X chromosome) is highlighted in yellow. Non-modal cell populations accounting for 5 percent or more of the total are highlighted in green (for chromosome gains) and red (for chromosome losses). The total fraction of cells off the mode is given in the far-right column, summary of the percentage of hSecurin+/+ (HCT116) and hSecurin-/-(KO1, KO2) cells off the mode (FIG. 2G, left panel) and frequency of nuclear 'bud' structures in hSecurin+/+ and hSecurin-/-cells (FIG. 2G, right panel). FIGS. 3A to 3D. Multiplex-FISH analysis of CIN phenotype in hSecurin-/-cells. FIG. 3A. M-FISH karyotype from a hSecurin-/-cell metaphase. FIGS. 3B-D. Summary of M-FISH data from parental hSecurin+/+ HCT116 cells (B) and from hSecurin-/-cells (C-D). Loss of a single copy of a given chromosome is marked in red, loss of both copies is marked in black, and gain of a single copy is marked in green. FIGS. 4A to 4C. Defective execution of an a phase in hSecurin-/cells. FIGS. 4A-B. Time lapse microscopy of hSecurin+/+ cells (A) and hSecurin-/-cells (B) stably expressing a histone H2B-GFP fusion protein. Arrows indicate aligned metaphase chromosomes, i.e., time 0. FIG. 4C. Quantitative analysis of mitotic intervals in hSecurin+/ + and hSecurin-/-cells. FIGS. 5A to 5C. Separin regulation is defective in hSecurin-/cells. FIG. 5A. Lysates from HeLa cells arrested with nocodazole and released for 1.5 or 2.5 hours (left panel) and from log phase hSecurin+/+ and hSecurin-/-cells (right panel) were probed with antibodies to separin. The positions of the full-length (p200) and cleaved (p60) forms of separin are indicated. (*) mark a non-specific background band. FIG. 5B. Cell cycle analysis of separin dynamics. hSecurin+/+ cells (left panel) and hSecurin-/-cells (right panel) were synchronized by sequential thymidine-aphidicolin blocks, released at the indicated time points, and FACS analysis was performed. FIG. 5C. Immunoblotting of synchronized cell lysates with antibodies to separin, phosphorylated histone H3, cyclin B, and the CDK inhibitor p21WAF1/CIP1. Full-length (p200) and cleaved p60

separin are indicated. (*) indicate a non-specific band.

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separin followed by immunoblotting before (-) and after (+)
     incubation in mitotic Xenopus extracts as a source of active APC
     (Waizenegger et al., 2000). (*) mark a slowermigrating separin
     fragment seen in all six lanes of the in vitro assay.
    FIGS. 6B-6C. Separin immunoprecipitates were incubated with
     mitotic Xenopus extracts, washed, and added to purified cohesin
     complexes. Samples were taken at different time points and analyzed by
     immunoblotting with myc antibodies. Full-length SCC1-myc migrates at 18
     150 kDa; a SCC1-myc cleavage product of 110 kDa (FIG. 7B). A 55 kDa Scc1
     cleavage product (arrows) absent from reactions using separin
     isolated from hSecurindeficient cells (FIG. 7C).
    FIG. 6D. hSecurin+/+ and hSecurin-/-HCT116 cells were transfected with
     Scc1-myc, nocodazole-synchronized in midmitosis, released from the
     nocodazole block and collected at the indicated time points. Lysates were
     analyzed by immunoblotting with myc antibody (top panels) and cyclin B
     antibody (bottom panels). Arrowhead marks the anaphase-specific 55 kDa
     Scc1-myc cleavage product. (*) indicates antibody crossreacting band.
    FIG. 7. Two-step 'Trigger Lock' model for the role of hSecurin in sister
     chromatid separation.
      ANSWER 23 OF 29 PATOSWO COPYRIGHT
                                           2002 WILA
                                             EW 200230
      2002:980642 PATOSWO
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      METHOD FOR IDENTIFYING COMPOUNDS MODULATING SISTER CHROMATID
      SEPARATION.
      PETERS, Jan-Michael, Kielmannseggasse 14, A-2100 Korneuburg, AT;
      WAIZENEGGER, Irene, Lechnerstrasse 13/18, A-1030 Wien, AT;
      SOMMERGRUBER, Wolfgang, Linzer-Strasse 19/Haus 4, A-3002 Purkersdorf, AT
      BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Postfach 200, 55216 Ingelheim
      am Rhein, DE (except US);
      PETERS, Jan-Michael, Kielmannseggasse 14, A-2100 Korneuburg, AT (only
      WAIZENEGGER, Irene, Lechnerstrasse 13/18, A-1030 Wien, AT (only US);
      SOMMERGRUBER, Wolfgang, Linzer-Strasse 19/Haus 4, A-3002 Purkersdorf, AT
       (only US
      Wila-IPA-2002-H30-T1
      W AE; W AG; W AL; W AM; W AT; W AU; W AZ; W BA; W BB; W BG; W BR; W BY;
      W BZ; W CA; W CH; W CN; W CO; W CR; W CU; W CZ; W DE; W DK; W DM; W DZ;
      W EC; W EE; W ES; W FI; W GB; W GD; W GE; W GH; W GM; W HR; W HU; W ID;
      W IL; W IN; W IS; W JP; W KE; W KG; W KP; W KR; W KZ; W LC; W LK; W LR;
      W LS; W LT; W LU; W LV; W MA; W MD; W MG; W MK; W MN; W MW; W MX; W MZ;
      W NO; W NZ; W PL; W PT; W RO; W RU; W SD; W SE; W SG; W SI; W SK; W SL;
      W TJ; W TM; W TR; W TT; W TZ; W UA; W UG; W US; W UZ; W VN; W YU; W ZA;
      W ZW;
      RW AT; RW BE; RW CH; RW CY; RW DE; RW DK; RW ES; RW FI; RW FR; RW GB; RW
      GR; RW IE; RW IT; RW LU; RW MC; RW NL; RW PT; RW SE; RW TR; RW AM; RW
      AZ; RW BY; RW KG; RW KZ; RW MD; RW RU; RW TJ; RW TM; RW GH; RW GM; RW
      KE; RW LS; RW MW; RW MZ; RW SD; RW SL; RW SZ; RW TZ; RW UG; RW ZM; RW
       ZW; RW BF; RW BJ; RW CF; RW CG; RW CI; RW CM; RW GA; RW GN; RW GQ; RW
      GW; RW ML; RW MR; RW NE; RW SN; RW TD; RW TG
      WOA2 PCT-PUBLICATION
      WO 2002057566
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      WO 2002-EP529
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       EP 2001-101252
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      ANSWER 24 OF 29
       2002076383 PCTFULL ED 20021011 EW 200240
       SECURIN IS REQUIRED FOR CHROMOSOMAL STABILITY IN HUMAN CELLS
TIEN
       PRESENCE NECESSAIRE DE LA SECURINE POUR LA STABILITE CHROMOSOMIQUE DANS
TIFR
       LES CELLULES HUMAINES
       VOGELSTEIN, Bert; KINZLER, Kenneth, W.; JALLEPALLI, Prasad; LENGAUER,
       Christoph
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processing and activation of separin protease in vitro.

FIG. 6A. Immunoprecipitation of nocodazole-arrested HeLa cell and hSecurin+/+ and hSecurin-/-HCT116 cell extracts with antibodies to

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JALLEPALLI, Prasad, for US only; LENGAUER, Christoph, for US only
       KAGAN, Sarah, A.
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       WO 2002076383
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       SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW GH GM KE LS MW MZ SD
       SL SZ TZ UG ZM ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
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       ANSWER 25 OF 29
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       2001088116 PCTFULL ED 20020826
AN
       METHOD OF MODULATING ACTIVATION OF LYMPHOCYTES VIA MODULATION OF
TIEN
       PITUITARY TUMOR TRANSFORMING GENE, RELATED SCREEINING METHODS
       MODULATION DE L'ACTIVATION DE LYMPHOCYTES ET CRIBLAGE D'AGENTS
TIFR
       IMMUNOMODULATEURS POTENTIELS PAR CIBLAGE DE L'EXPRESSION ET/OU DE LA
       FONCTION DU GENE DE TRANSFORMATION DE LA TUMEUR DE L'HYPOPHYSE (PTTG)
       STOIKA, Rostyslav; HORWITZ, Gregory, A.; ZHANG, Xun; MELMED, Shlomo
IN
       CEDARS-SINAI MEDICAL CENTER
PA
DT
       Patent
                            A2 20011122
PI
       WO 2001088116
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       LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
       TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ
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       US 2001-09/777,422
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                              20010511
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       ANSWER 26 OF 29
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AN
       METHODS OF MODULATING ANGIOGENESIS BY REGULATING THE EXPRESSION OF
TIEN
       PITUITARY TUMOR TRANSFORMING GENE (PTTG)
       PROCEDES DE MODULATION DE L'ANGIOGENESE PAR REGULATION DE L'EXPRESSION
TIFR
       DU GENE TRANSFORMANT LA TUMEUR DE L'HYPOPHYSE
       HEANEY, Anthony, P.; ISHIKAWA, Hiroki; YU, Run; HORWITZ, Gregory, A.;
IN
       ZHANG, Xun; MELMED, Shlomo
PA
       CEDARS-SINAI MEDICAL CENTER
DT
       Patent
       WO 2001087935
                            A2 20011122
ΡI
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VOGELSTEIN, Bert, for US only; KINZLER, Kenneth, W., for US only;

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       ANSWER 27 OF 29
                         PCTFULL
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AN
       2001087934 PCTFULL ED 20020826
TIEN
       TREATMENT OF NEOPLASIA/TRANSFORMATION USING A PITUITARY TUMOR
       TRANSFORMING GENE CARBOXY TERMINAL PEPTIDES
TIFR
       PEPTIDES CARBOXY-TERMINAUX DU GENE TRANSFORMANT DE LA TUMEUR DE
       L'HYPOPHYSE (PTTG) ET LEURS PROCEDES D'UTILISATION VISANT A INHIBER UNE
       PROLIFERATION ET/OU UNE TRANSFORMATION CELLULAIRES NEOPLASIQUES
IN
       HORWITZ, Gregory, A.; ZHANG, Xun; HEANEY, Anthony, P.; MELMED, Shlomo
PA
       CEDARS-SINAI MEDICAL CENTER
DT
       Patent
PΙ
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ICS
       A61K048-00; A61K038-17; C12N005-10; A01K067-027; C07K016-18; A61P035-00
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       DATA NOT AVAILABLE FOR THIS ACCESSION NUMBER
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AN
       Methods of modulating angiogenesis by regulating the expression of
TI
       pituitary tumor transforming gene (PTTG)
IN
       Heaney, Anthony P., Los Angeles, CA, UNITED STATES
       Ishikawa, Hiroki, Nagasaki, JAPAN
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       Melmed, Shlomo, Los Angeles, CA, UNITED STATES
PI
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DT
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       APPLICATION
LN.CNT 4221
INCL
       INCLM: 514/044.000
NCL
       NCLM: 514/044.000
IC
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ICM: A61K031-70 ICS: A01N043-04